

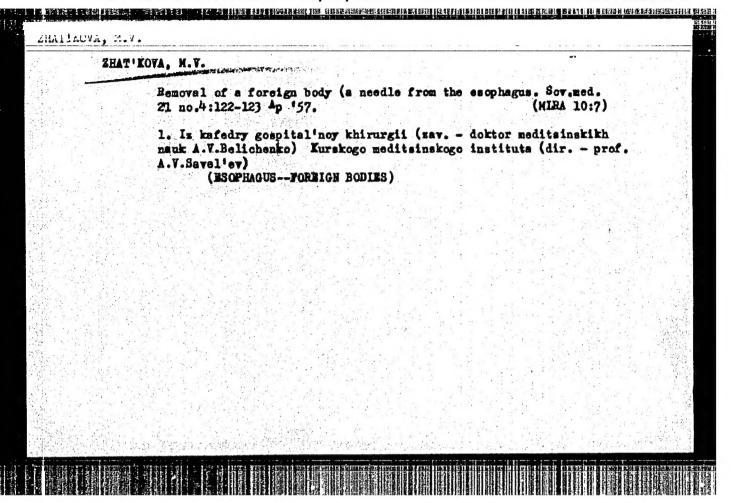
ZHAT'KO, C.N.

Improve the parameters and the technology of testing gas pipe lines.
Stroi. truboprov. 9 no.4:36-37 Ap '64. (HIRA 17:9)

1. Gosgazinspektslya Gosudarstvennogo proisvodstvennogo komiteta po gasovoy promyshlennosti SSSR.

ZHAT 'KO	O.N.		
	Safety measures during construction of loopings and para Stroi.truboprov. 8 no.7:31 Jl '63.	allel routes. (MIRA 17:2)	
	1. Gosudarstvennaya gazovaya inspektsiya Gazproma SSSR,	Kharikov.	

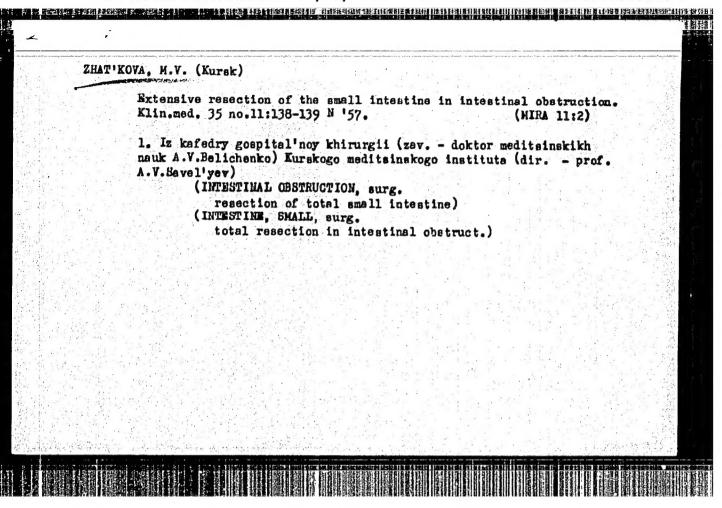
ZHAT	(O, O.N.					
		y to improve truboprow. 8	the design solution 11:18-20 *6	ations of cond	lensation	
	1. Otdeleniye	Gosgazinspekt	sii Gazproma S	SSR.		



ZHAT'KOVA, M. V.: "The course of acute intestinal impassability, using bromine preparations (experimental-cilnical investigation)."

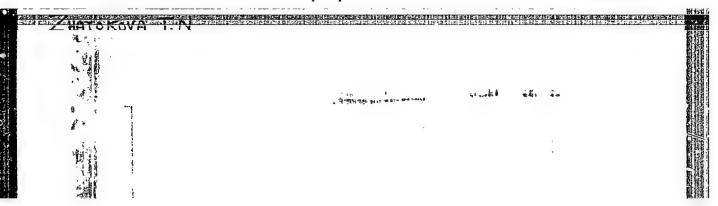
Min Health USSR. Kazan' State Medical Inst. Kazan', 1956 (Dissertation for the Degree of Candidate in Medical Sciences)

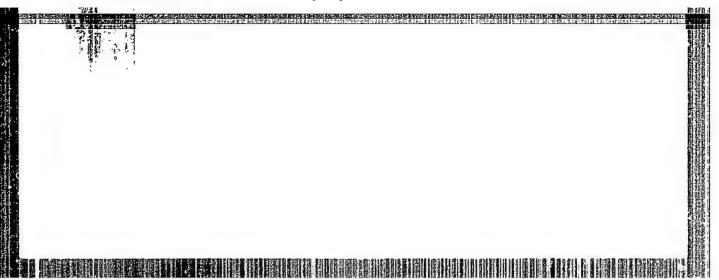
So: Knizhnaya letopis' No. 38, 1956 Moncow

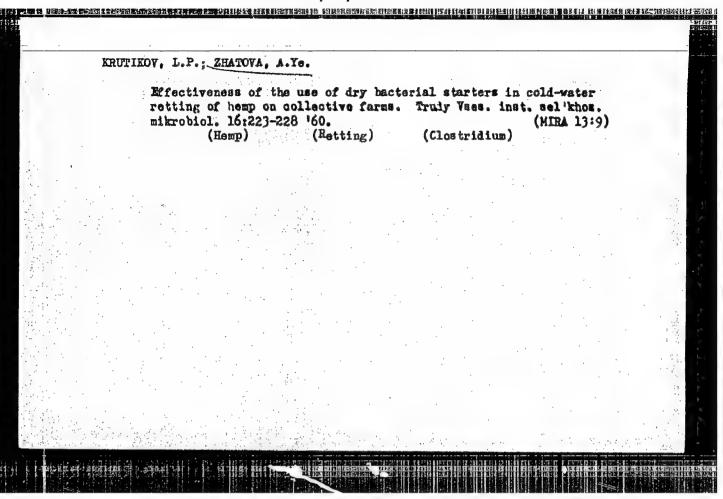


Gastric volvulus. Vest. khir. 80 no.2:105 J '58. (MIRA 11;3)

1. Is kafedry gospital noy khirurgii (sav.-doktor med.nauk A.V.
Belichenko) Kurskogo meditsinskogo instituta.
(STOMACH.-DISRASES)





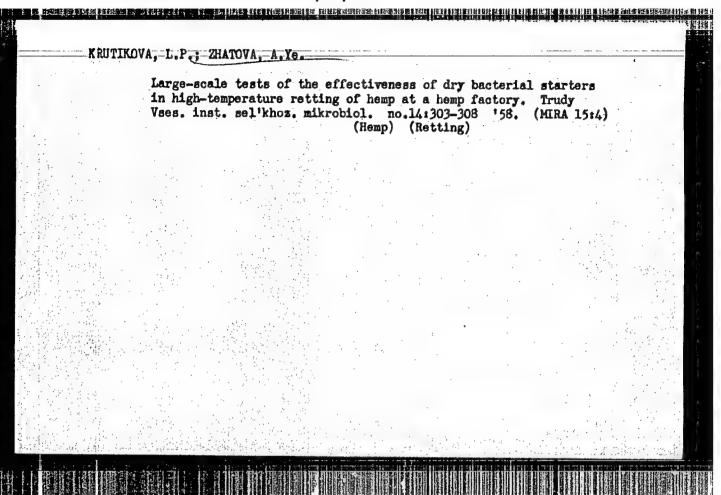


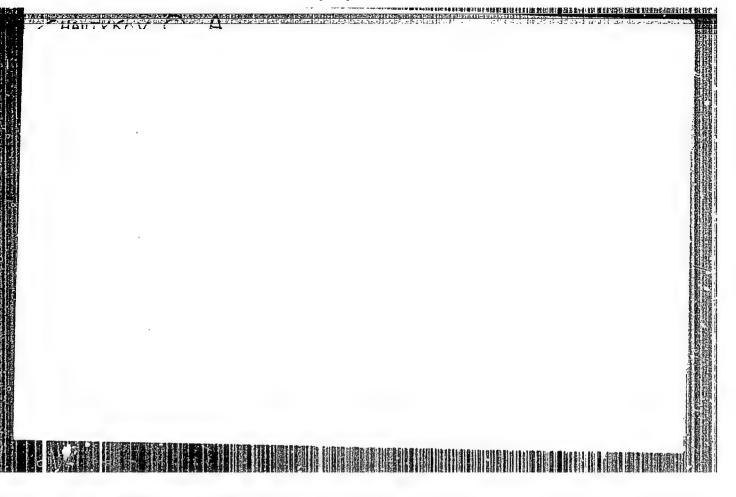
ZHATOV.I.W.; PETROV, A.A.; AGEYEVA, V.A.; UKHANOVA, V.A.; BOVVA, D.L., red.;
TYUTYAYEV, B.A., red.

[Novgorod Province during forty years of the Soviet regime, 1917-1957; a statistical manual] Novgorodskaia oblast' za 40 let Sovetskoi vlasti (1917-1957); statisticheskii sbornik. [Movgorod] Knizhnaia red. gazety "Novgorodskaia pravda," 1957. 501 p. (MIRA 11:3)

1. Novgorodskaya oblasti. Statisticheskoye upravleniye. 2. Nachalinik Novgorodskogo oblastnogo statichesticheskogo upravleniya (for Bovva). 3. Novgorodskoye oblastnoye statisticheskoye upravleniye (for Zhatov, Petrov, Ageyeva, Ukhanova)

(Novgorod Province—Statistics)



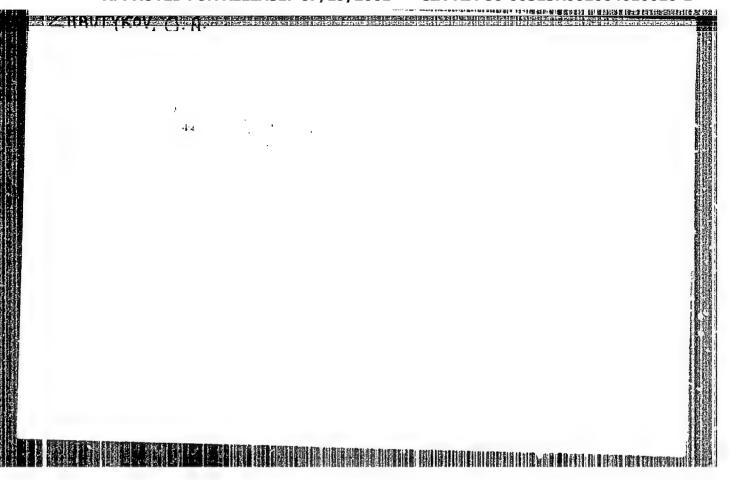


ZHAUTYKOV, O.A.

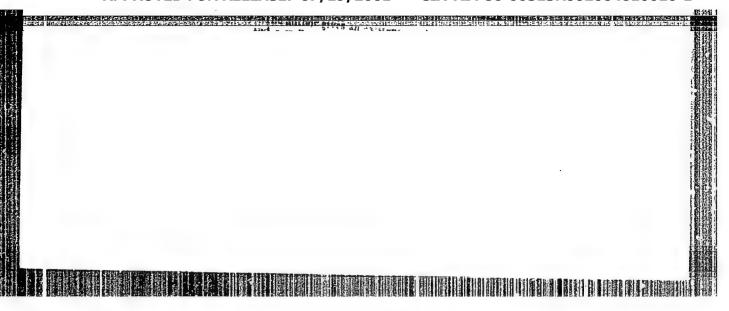
36557. Aleksandr mikhaylovich lyapunov. (Matematik. K 30-letiyu so dnya smerti).

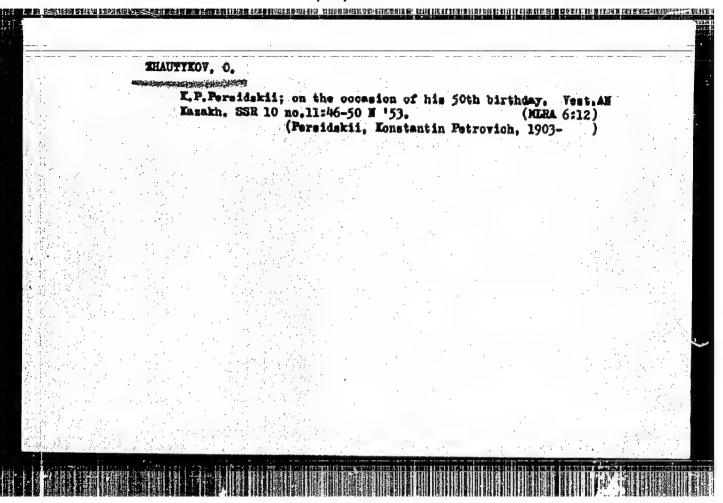
Vestnik akad. nayk kazakh. ser, 1949, No. 8, c 79-91

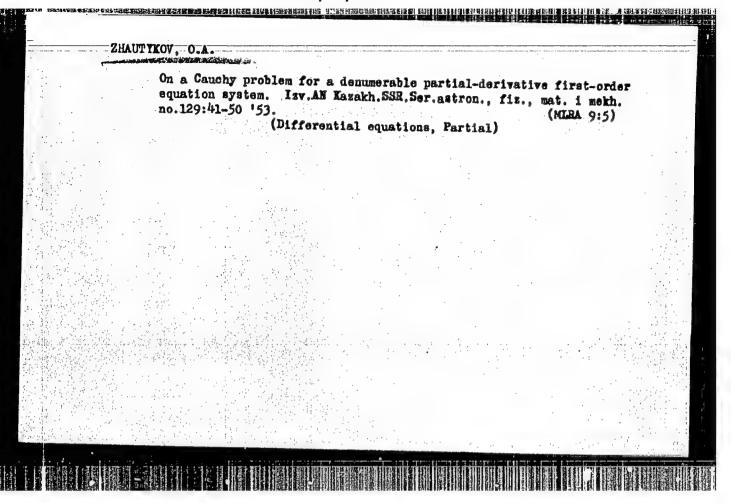
S8: Letopis' Zhurnal'ynkh Statey, Vol. 50, Moskva, 1949

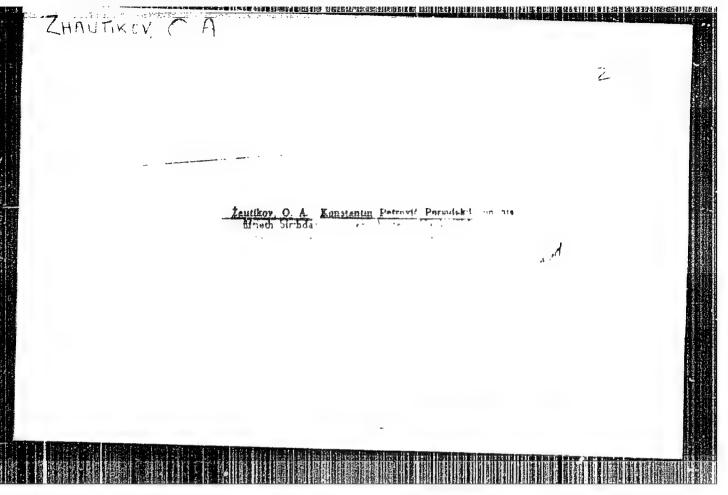


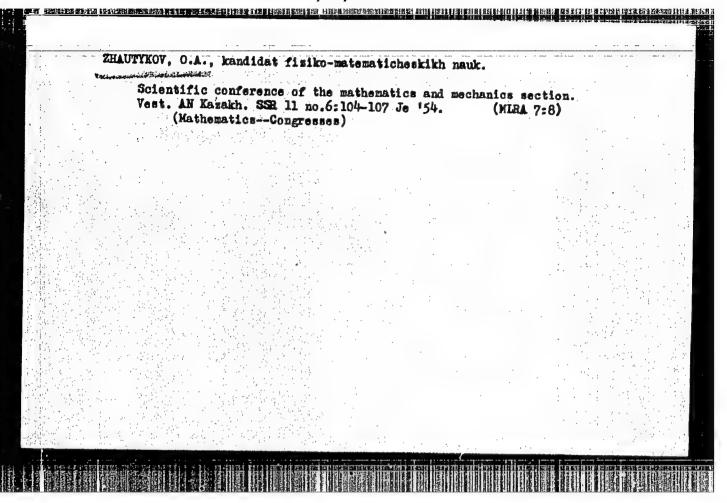


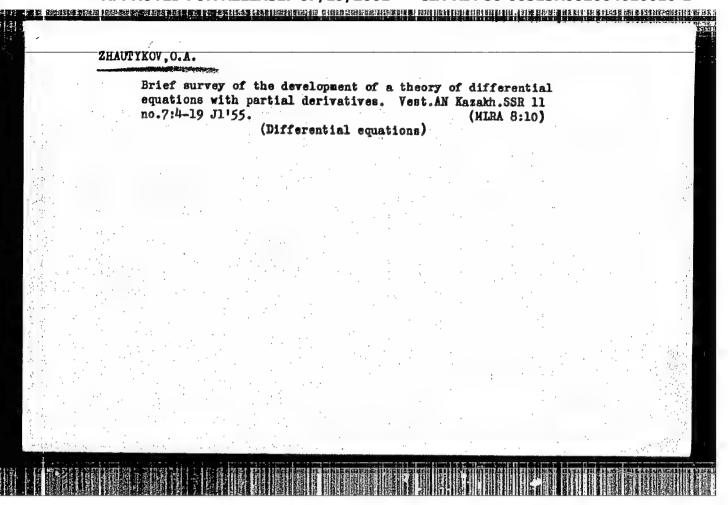


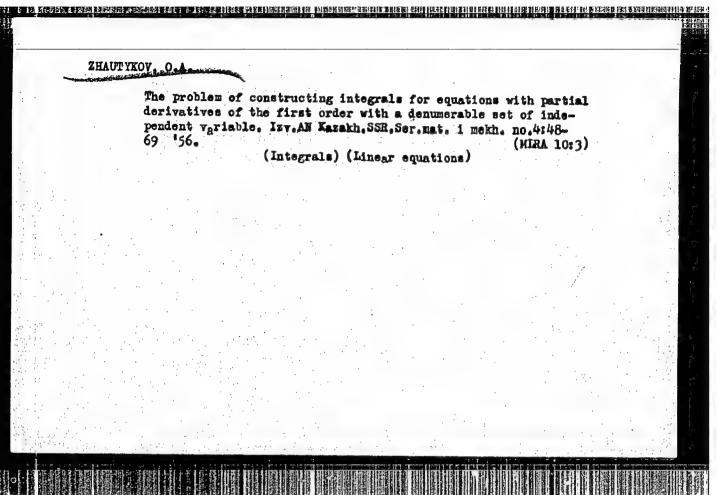












SOV/124-57-7-8101

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 7, p 99 (USSR)

AUTHOR: Zhautykov, O. A.

TITLE: On a Certain Seepage Problem (Ob odnoy zadache fil'tratsii)

PERIODICAL: Izv. AN KazSSR, ser. matem. i mekhan., 1956, Nr 4, pp 70-79

ABSTRACT: The author investigates the plane-radial unsteady-state seepage of a uniform elastic fluid in an infinitely extended elastic layer. The flow toward a well with radius R_c inside a zone of radius R_k is examined; the porosity of the layer is designated as m, its permeability is k, and its piezoconductivity coefficient a²; the total volumetric yield of the well is assumed as constant. The pressure p(r,t) at any point of the layer is determined. The solution is reduced to the finding of the solution of the differential equation

$$\frac{\partial^2 p}{\partial r^2} + \frac{1}{r} \frac{\partial p}{\partial r} = \frac{1}{a^2} \frac{\partial p}{\partial t}$$
 (1)

which satisfies several initial and boundary conditions; one of these Card 1/2 conditions is the following

SOV/124-57-7-8101

On a Certain Seepage Problem

$$p(r,0) = \phi(r)$$

By employing Laplace transform

$$\overline{p}(r,s) = \int_{0}^{\infty} p(r,t) e^{-8t} dt$$
 (2)

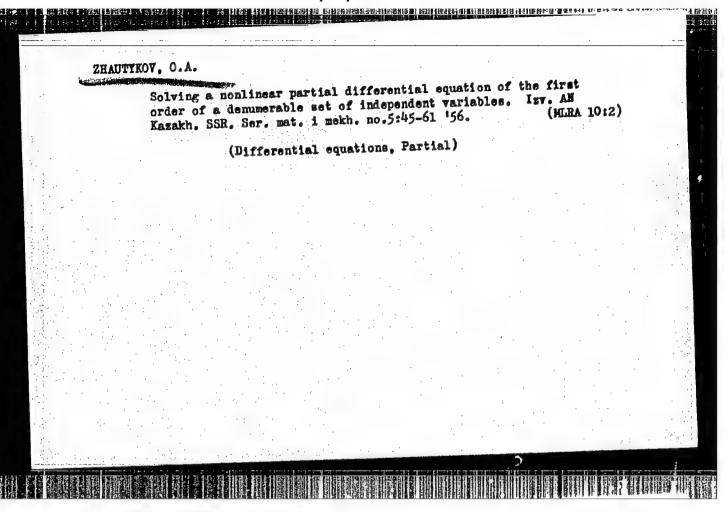
the author transforms equation (1) to the form

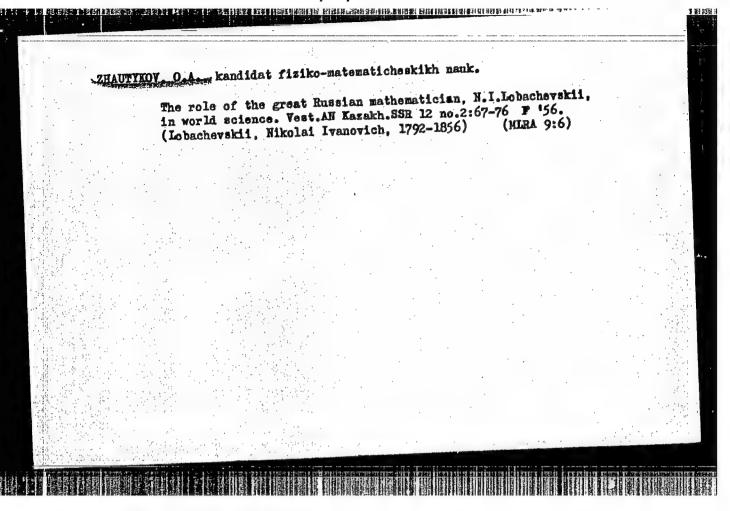
$$\frac{d^2\overline{p}}{dr^2} + \frac{1}{r}\frac{d\overline{p}}{dr} - \frac{s}{a^2}\overline{p} = -\frac{s\phi(r)}{a^2}$$
 (3)

Since the multiplier s in the right part of the equation is redundant, this result is incorrect. This error shows up in the author's further operations. Bibliography: V. A. Karpychev 5 references.

Card 2/2

CIA-RDP86-00513R002064610010-1" APPROVED FOR RELEASE: 07/19/2001





ZHAUTYKOV, O. A.

"Development of Mathematics in Kazakhstan." p. 260. in Science in Kazakhstan during the Forty Years of the Soviet Regime. Alma-Ata. Izd-vo AN Kazakhskoy SSB, 1957. 452p. (ed. Stapayer, K. I)

In This is a collection of articles (20) compiled by 24 authors on various aspects of scientific progress in Soviet Kazakhstan. One third of the articles also deal with the progress made in the main fields of industrial endeavor. The articles on the development of science survey the main contributions made in the respective branches by Kazakh scientists, and enumerate and describe the existing scientific institutes, organizations, and universities. A large number of scientists are mentioned and their fields of intersest stated.

SOV/124-58-11-12901

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 11, p 148 (USSR)

Zhautykov, O. A. AUTHOR:

On the Solution of a Particular Problem of the Theory of Seepage

(Po povodu resheniya odnoy zadachi teorii fil'tratsii) TITLE:

PERIODICAL: Izv. AN KazSSR. Ser. matem. i mekhan., 1957, Nr 6 (10),

pp 46-50

An examination of the problem (Zhautykov, O. A., Izv. AN KazSSR, Ser. matem. i mekhan., 1956, Nr 4, pp 70-79; RZhMekh, ABSTRACT: 1957, Nr 7, abstract 8101) on the pressure distribution in an elastic stratum following the sudden stoppage of the operation of a deep-well pump, assuming that the continuing flow of the liquid toward the well results in a dynamic rise of the free surface, i. e., the pressure on the well bottom is increased. The solution of the

heat-conductivity equation

 $\frac{\partial^2 p}{\partial r^2} + \frac{1}{r} \frac{\partial p}{\partial r} = \frac{1}{a^2} \frac{\partial p}{\partial t}, \quad R \le r \le R_k,$

Card 1/2

SOV/124-58-11-12901

On the Solution of a Particular Problem of the Theory of Seepage

under the conditions:

$$p(r,0) = \phi(r) \qquad \text{for } R \le r \le R_k$$

$$p(R_k,t) = p_k = \text{const} \quad \text{for } t \ge 0$$

$$(\frac{\partial p}{\partial r})_{r=R} = \gamma (\frac{\partial p}{\partial t})_{r=R} \qquad \text{for } t \ge 0$$

where γ is a constant and R is the radius of the well, is sought in the form of $p(r,t)=u(r,t)+\phi(r)$, wherein the Laplace transform is used. The expression for the function u(r,t) is found; however, in the transition to u(r,t) the author does not investigate the existence of the roots of the polynomial of the Bessel functions that enters as a factor into the denominator of the expression of the Fourier-Mellin inversion formula under the integral, i.e., the possible presence of additional poles is not investigated. Therefore, the problem as set up does not appear complete, and the final result thereof appears unsubstantiated.

Card 2/2

39-1-3/8 ZHAUTYKOV, O.A. (Alma-Ata) AUTHOR: The Generalization of the Poisson Brackets for Functions of Enumerably Many Variables (Obobshcheniye skobok Puassona dlya TITLE: funktsiy schetnogo mnozhestva peremennykh). Matematicheskiy Sbornik, 1957, Vol 43, Nr 1, pp. 29-36 (USSR) PERIODICAL: Let the functions $\Psi(x_1,x_2,\dots;x_1,x_2,\dots)$ and $\Psi(x_1,x_2,\dots;x_2,\dots;x_n,x_n,\dots;x_n,x_n,\dots;x_n,x_n,\dots;x_n,x_n,\dots;x_n,x_n,\dots;x_n,x_n,\dots;x_n,x_n,\dots;x_n,x_n,\dots;x_n,x_n,\dots;x_n,x_n,\dots;x_n,x_n,\dots;x_n,x_n,\dots;x_n,\dots$ ABSTRACT: z_1, z_2, \dots) be continuous in the domain H: $|x_k| < R$, $|z_r| < R$ (k,r = 1,2,...) with respect to the metric $g[(x_1,x_2,...,x_1,x_2,...),$ $(x_1, x_2, ...; x_1, x_2, ...)$ = sup $\{|x_1-x_1|, ...; |x_1-x_1|, ...\}$ uniformly bounded. They are assumed to possess continuous, uniformly bounded partial derivatives of first order and satisfy the conditions $(x_1, x_2, \dots, x_{m-1}, x_m^i, x_{m+1}^i, \dots; x_1, x_2, \dots, x_{m-1}, x_m^i, x_m^i + 1, \dots)$ $- \mathcal{P}(x_1, x_2, \dots, x_{m-1}, x_m'', x_{m+1}'', \dots; z_1, z_2, \dots, z_{m-1}, z_m', z_{m+1}'', \dots)) \leqslant$ $\langle \epsilon_m \Delta z; \text{ etc. for } \psi \text{ where } \Delta z = \sup \left[|x_m^i - x_m^{ii}|, \dots, |x_m^i - x_m^i|, \dots, |x_m^$ For $m \to \infty$ it is assumed that \mathcal{E}_m tends to 0 uniformly in x,x1,x",z,21,2". Card 1/2

The Generalization of the Poisson Brackets for Functions of Enumerably Many Variables.

39-1-3/8

 $^{8} (\varphi, \psi) = \sum_{k=1}^{\infty} \left(\frac{3z_{k}}{3 \cdot 4} \cdot \frac{3x_{k}}{3 \psi} - \frac{3x_{k}}{3 \cdot 4} \cdot \frac{3z_{k}}{3 \psi} \right)$ The series

which is uniformly convergent under these conditions is denoted as Poisson bracket. It is $(\Upsilon, \Upsilon) = -(\Psi, \Upsilon)$, $(\Upsilon, C\Psi) = C(\Upsilon, \Psi)$,

 $(\gamma, \psi + \chi) = (\gamma, \psi) + (\gamma + \chi), (\gamma, \chi \psi) = \chi (\gamma, \psi) + \psi (\gamma, \chi),$

 $(\varphi, \phi(\mathfrak{t}_1, \mathfrak{t}_2, \ldots)) = \sum_{i=1}^{\infty} (\P, \mathfrak{t}_i) \frac{\partial \phi}{\partial \mathfrak{t}_i}$

There also holds the Poisson identity:

 $(\gamma, (\gamma, \omega)) + (\gamma, (\omega, \gamma)) + (\omega, (\gamma, \psi)) = 0.$

Two Soviet references are quoted. May 21, 1956

SUBMITTED:

AVAILABLE:

Library of Congress

Card 2/2

ZHAUTYKOV, O.A.

16(1): 14(10)

PHASE I BOOK EXPLOITATION

SOV/1281

Akademiya nauk Kazakhskoy SSR. Sektor matematiki i mekhaniki

- Trudy, t. 1 (Transactions of the Mathematics and Mechanics Section, Kazakh S.S.R. Academy of Sciences, v. 1) Alma-Ata, Izd-vo AN Kazakhskoy SSR, 1958. 207 p. 2,500 copies printed.
- Eds.: Vaslavskiy, N.A. and Shevchuk, T.I.; Tech. Ed.: Rorokina, Z.P.; Editorial Board: Akushskiy, I.Ya., Archashnikov, V.P., Zhautykov, O.A. (Resp. Ed.), Zhilenko, L.G. (Resp. Secretary), Molyukov, I.D., Strel'tsov, V.V.
- PURPOSE: This book is intended for scientists, and students taking senior physics and mathematics courses at vuzes.
- COVERAGE: The book contains contributions by scientists in Kazakhstan in the fields differential equations, theory of elasticity, algebra, nomography, calculation by machine, theory of plasticity, mechanics of a medium of variable mass, etc. It is dedicated to the 10th anniversary of the organization of the Sektor matematiki i mekhaniki Akademii nauk Kazakhskoy SSR (Mathematics and Mechanics Section, Academy of Sciences, Kazakh SSR.)

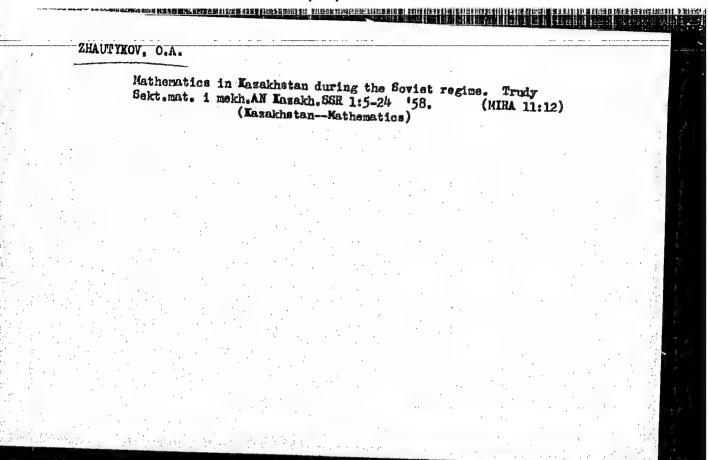
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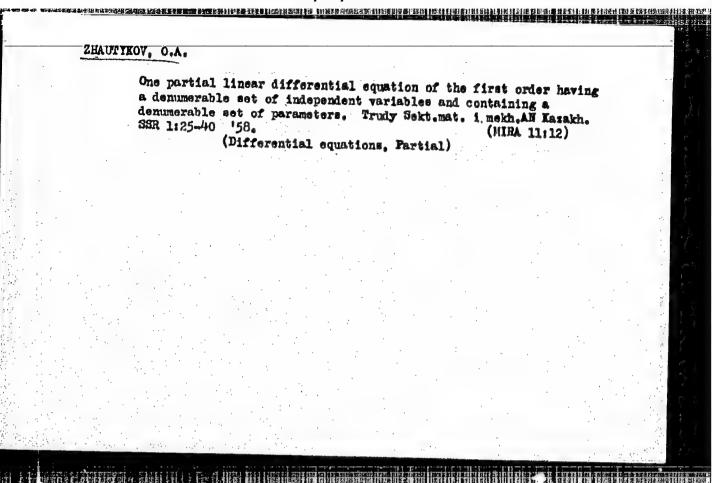
Transac	ctions of	he Mathemati	cs (Cont.)		80V/1	.281		
TABLE (OF CONTENTS					2		
Zhautyl	cov, O.A.	Mathematics	in Kazakhsta	n During the	Soviet Per	iod	5	
Zhautyk	OV. O.A.	On One Parti Set of Inde	el Different	fal Resetts				
							25	,
Kudskov	a, R.V. O	n Stability :	in a Finite!	lime Interva	1		41	
Kharasa Equa	khal, V. tions of t	On the Stabi ne 2nd Order	lity of Lines	er Systems o	f Different:	lal.	46	
	ayev, A.K. fe Section uto-contro	Certain Tes s of the Bour l Systems	sts for the I	Distinction Stability R	Between Safe egion of One	and Class		Table 1
Pentkovi by No	skiy, M.V. Omograms a	On the Eval	uation of Er Sest Transfor	ror of Comp	iting Alignm	ent Points	50	
Card 2/	. '			1			62	

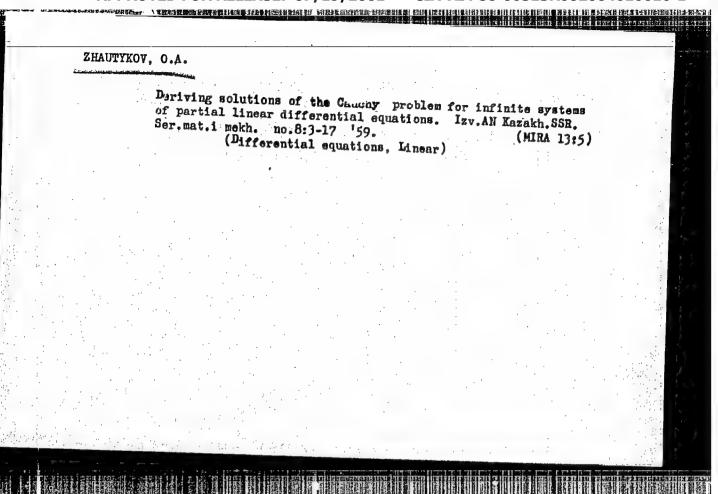
rd 3/4	147
narasakhal, V. On the Characteristic Numbers of Linear Systems of Dif- ferential Equations With Variable Coefficients	
a Heavy Solid Body With One Fixed Point in the Case of D.N. Goryachev and	140
rchashnikov, V.P. On the Problem of Determining the Pressure on the Supports [Sets] in Horizontal Mining	133
Archashnikov, V.P. Calculating Stresses in Intercameral Pillars in the Case When Floor and Roof Remain	126
Akushskiy, I.Ya. On the Solvability of a Computing Problem for a	111
Akushskiy, I.Ya. On Solvability by a Nonhomogeneous Operation Cycle	71
Strel'tsov, V.V. Evaluating the Length of a Curve on a Surface of	
Transactions of the Mathematics (Cont.) S0V/1281	

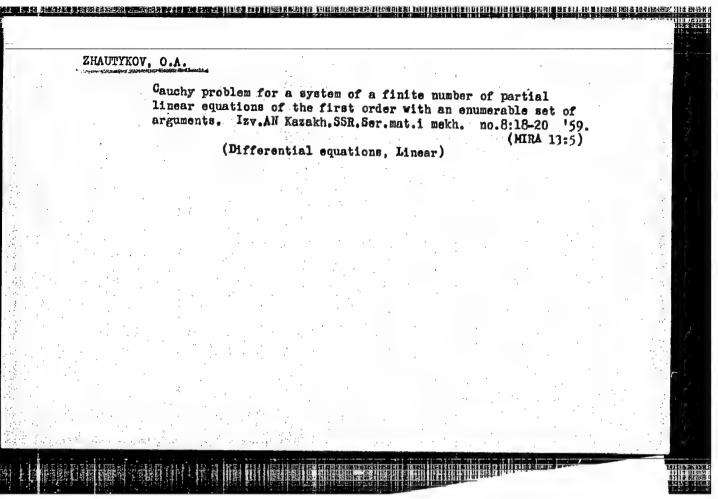
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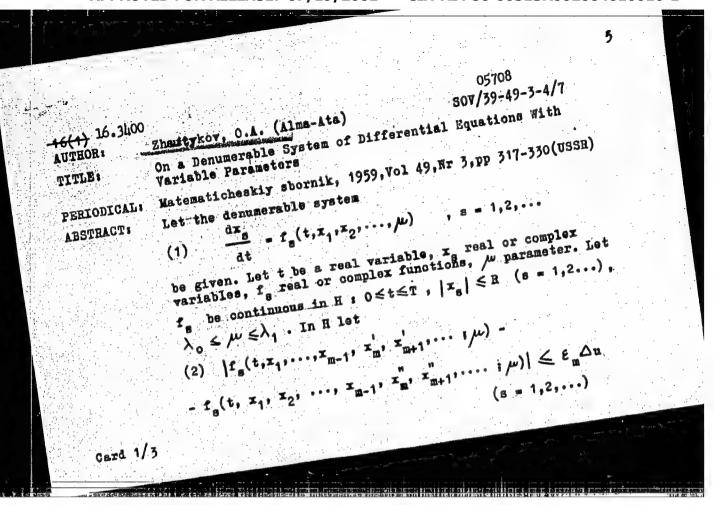
ransactions of the Mathema	tics (Cont.)	50m la - 0	
edel'bayev, A.K. On the S Class of Auto-control Sy	tability of the Non-st	SOV/1281 eady Motions of One	
razbayev, B.M. Asymptotic	Evaluation of One And	Almada	151
of Inertia	Cross Sections of Rec	iprocal Ellipsoids	160
			175
Geodesic Nets	Not Determine		717
karev, P.I. Geodesic Nets		Wetwork Angle	194
-39-YEV - M.P. O- 11		Network Angle	
Solid Body With One Fixed	ically Possible Regula Point	Network Angle	
-39-YEV - M.P. O- 11	ically Possible Regula Point	Network Angle	194
Solid Body With One Fixed	ically Possible Regula Point	r Precessions of a	194
Solid Body With One Fixed	ically Possible Regula Point ess	r Precessions of a	194
Solid Body With One Fixed	ically Possible Regula Point ess	r Precessions of a	194











05708 On a Denumerable System of Differential Equations With Variable Parameters SOV/39-49-3-4 $t \in [0,T]$, for which it is (*) sup $[|z_1(t,\mu)|, |z_2(t,\mu)|, \cdots] \leq R$. Besides (1) consider the shortened system $\frac{x_1}{dt} = f_1(t, x_1, x_2, ..., x_n, 0, 0, ...; \mu)$ Theorem 2 gives conditions under which the solutions of (5) for n > continues this result to a system with finitely many parameters w. Then the author considers the above systems with denumerably many parameters a . In two theorems he investigates the analytic and periodic behavior of the solutions of (1). A.N. Tikhonov and K.P. Persidskiy are mentioned in the paper. - There are 6 references, 5 of which are Soviet, and SUBMITTED: December 23, 1957 Card 3/3

ZhAUTYKOV, O. A., Dr. Phys-Math Sci — (diss) "Investigation on the Theory of Calculating Systems of Differential Equations," Novosibirsk, 1960, 25 pp, 200 copies (Joint Scientific Council on Physics-Mathematical and Technical Sciences, Siberian Department, AS USSR) (KL, 47/60, 97)

BEDEL'BAYEV, Abdesh Kuramayevich; ZHAUTYKOV, O.A., dotsent, kend.fiz.-mat. nauk, otv.red.; ALEKSANDRIYSKIY, V.V., red.; ALEKSANDRIYS

[Stability of nonlinear automatic control systems] Ustoichivost' nelineinykh sistem avtomaticheskogo regulirovaniis. Alma-Ata, Izd-vo Akad.nauk Kazakhskoi SSR, 1960. 162 p. (MIRA 13:10) (Automatic control)

83222 S/041/60/012/002/003/005 16.3400 C111/C333 AUTHOR: Zhautykov, O.A. The Solution of the Boundary Value Problem for an Infinite System of Ordinary Differential Equations PERIODICAL: Ukrainskiy matematicheskiy zhurnal, 1960, Vol. 12, No. 2, pp. 157-164 TEXT: Let C : $t \in [\infty, \beta]$, $|x_k - a_k| \le b$, k=1,2,... be a domain of the denumerable-dimensional space $(t,x_1,x_2,...)$. Let $\omega_g(t,x_1,x_2,...)$ be continuous and uniformly bounded in G, i.e. $|\omega_s(t,x_1,x_2,...)| \le \mathbb{I}(t)$, $t \in [\infty,\beta]$, $\mathbb{I}(t)$ positive and contimuous. Let the Lipschitz condition $|\omega_{\mathbf{s}}(\mathbf{t},\mathbf{x}_{1}^{\prime},\mathbf{x}_{2}^{\prime},\ldots)-\omega_{\mathbf{s}}(\mathbf{t},\mathbf{x}_{1}^{\prime\prime},\mathbf{x}_{2}^{\prime\prime},\ldots)|\leqslant\mathbf{A}(\mathbf{t})\Delta\mathbf{v}$ (3)be satisfied in G, where A(t), $t \in [\infty, \beta]$ is continuous and $\Delta v = \sup \left[|x_1^* - x_1^*|, |x_2^* - x_2^*|, \dots \right]$. The author considers the boundary value problem Card :1/3

83222

s/041/60/012/002/003/005 c111/0333

The Solution of the Boundary Value Problem for an Infinite System of Ordinary Differential Equations

(1)
$$\frac{dx_s}{dt} = \omega_s(t, x_1, x_2, \dots), s=1, 2, \dots, (4) x_k(t_k) = a_k(k=1, 2, \dots),$$

where $t_k \in \mathcal{C} \subset [\alpha, \beta]$ and the length h of \mathcal{C} satisfies the condition

(5) hN < b, where N = max [N(t),A(t)]. Theorem 1 says that the problem (1)-(4) on δ possesses an equicontinuous system of solutions $x_1(t),x_2(t),...$, which can be determined by the equivalent system of integral equations

(6)
$$x_s(t) = a_s + \int_{t_0}^{t} \omega_s[\tau, x_1(\tau), x_2(\tau), ...] d\tau$$

Theorem 2 says that this solution is unique. Theorem 3 says that the solution is uniformly continuous relative to the a_k , if t satisfies the condition $\sup[|x_1(t)-a_1|, |x_2(t)-a_2|, \cdots] < b$. The author gives conditions under which the solution of the infinite system can be sufficiently well Card 2/3

83222 \$/041/60/012/002/003/005 C111/C333

The Solution of the Boundary Value Problem for an Infinite System of Ordinary Differential Equations

described by the solution of a "shortened" (finite) system. The author mentions A.B.Nayshul..
There are 2 Soviet references.

SUBMITTED: August 29, 1958

Card 3/3

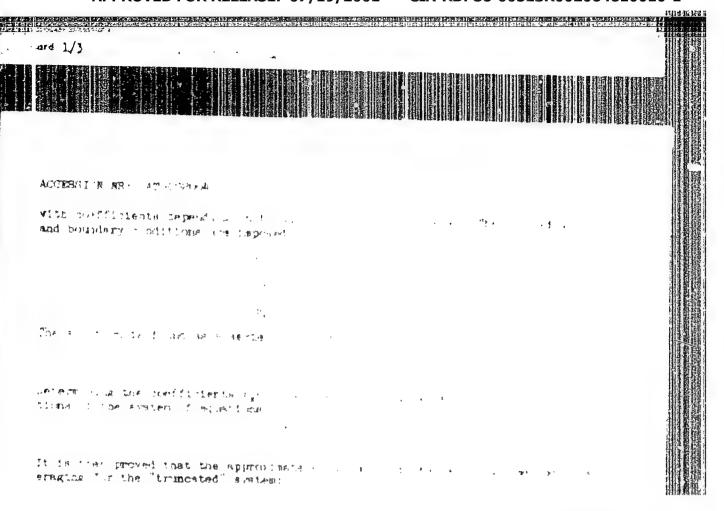
DIES Use of the method is averaging to a second in vibration theory.

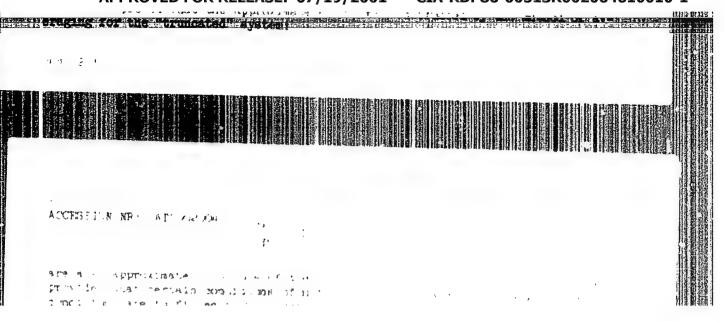
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OPIC TARE averaging method, vibrating and parties, history average, he made an entire of the province solution, vibration theory, average, he made an entire of the province solution, vibration theory, average, he made an entire of the province solution.

iBSTRACT: This article exemines the parch are or prestructing a relative of the wave linear partial differential equation:

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SOURCE: Ukrainskiy	matematicheskiy zhurnal, v. 17,	no. 1. 1965 . 70. hC	
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on parameter / , whe	re F(t,x,) is a function of	E Bn defined for	
$t = f(0, T)$ and $x \in G$	26A There		-
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dxk	- ε _k (t. x ₁ / x ₂ /		-

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	C, a point of y bounded by a					of	
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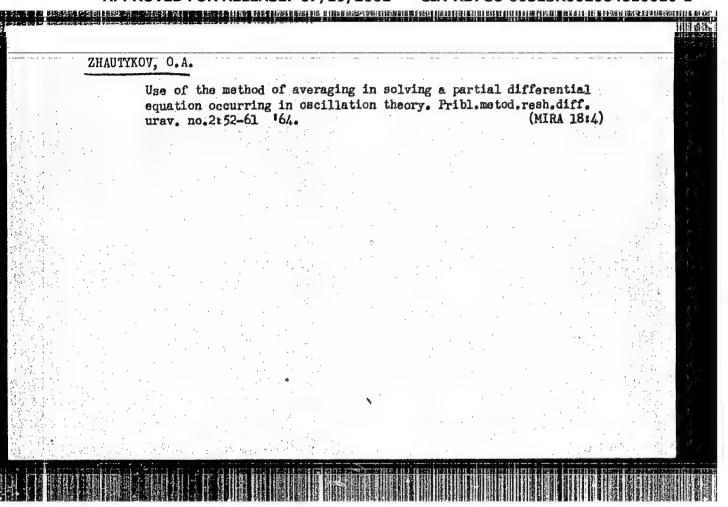
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continuous with r	respect to the fami	ly of functions at	ted by equation	ns (2) is	
	z, (c, λ) = z; + ∫	/. / _e T ₁ Z ₁ T ₁ Z ₂ T ₁ ;	λ] dτ (h == 1, 2,	19	
in C for some f	1)				
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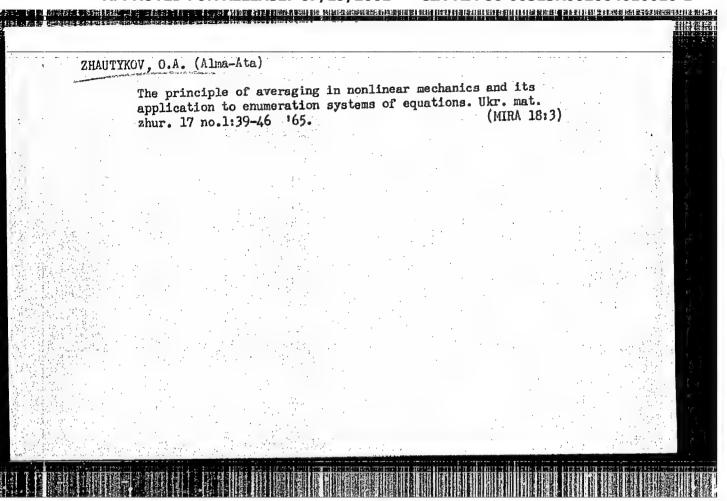
ZHAUTKOV, O.A., akademik, otv. red.; AMANDOSOV, A.'., red.; YEFZHANOV,
Zh.S., doktor tekhn. nauk, red.; KIM. Ye.I., red.; PERSIDSKIY, K.P.,
akademik, red.; SHEVCHUK, T.I., red.

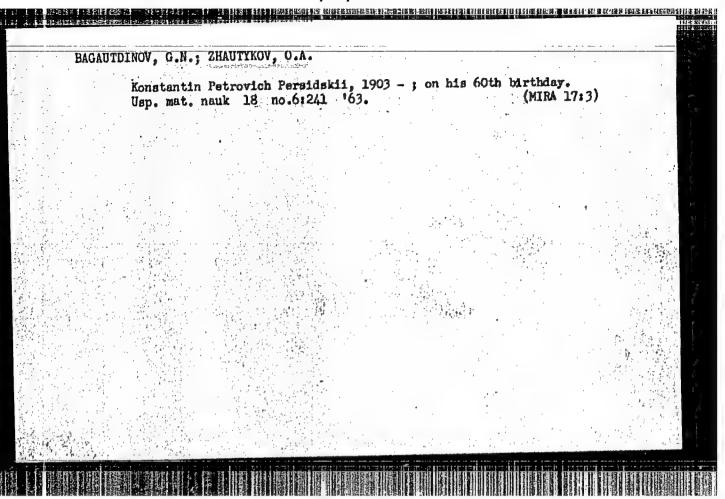
[Studies on differential equations and their application]
Iseledovania po differential lym uravmeniam i ikh
primeneniu. Alma-Ata, Nauka, 1965, 1965. 199 p.

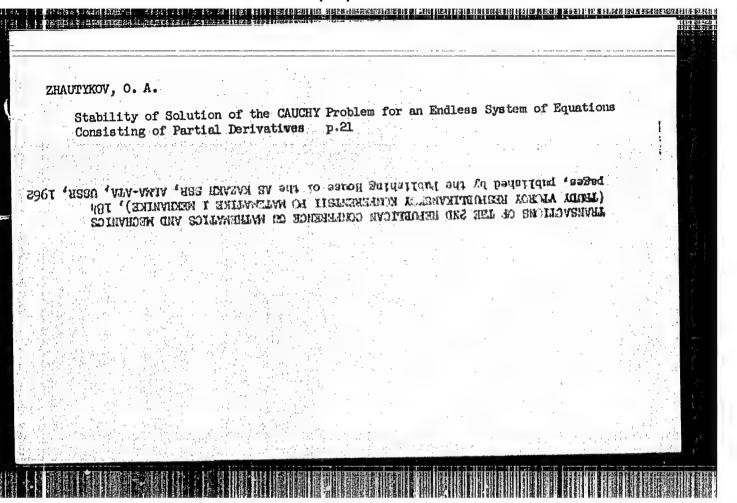
(MIRA 18:8)

1. Akademiya nauk Kazakhekoy SSR, Alma-Ata. Sektor matematiki
i mekhaniki. 2. Chlen-korrespondent AN Kaz.SSR (for Kim).
3. AN Kaz.SSR (for Zhautyker, Persidskiy).









PENTKOVSKIY, M.V., otv. red.; ZHAUTYKOV, O.A., red.; MOLYUKOV, I.D., red.; PERSIDSKIY, K.P., red.; YATAYEV, M., red.; BEDEL BAYEV, A.K., red.; OSADCHIY, F.Ya., red.; SHEVCHUK, T.I., red.; ALFEROVA, P.F., tekhn. red.

[Transactions of the Second Republic Conference on Mathematics and Mechanics]Trudy Vtoroy respublikanskoy konferentsii po matematike i mekhanike. Alma-Ata, Izd-vo Akad.nauk Kazakhskoy SSE, 1962. 183 p. (MIRA 15:7)

1. Respublikanskaya konferentsiya po matematike i mekhanike, 2d, Alma-Ata, 1959.

(Mathematics-Congresses) (Mechanics-Congresses)

S/044/62/000/007/034/100 C111/C222

AUTHOR:

Zhautykov, O.A.

TITLE:

The application of functional analysis to the solution of a problem of the dynamic stability of elastic systems

PERIODICAL: Referativnyy zhurnal, Matematika, no. 7, 1962, 63-64, abstract 7B29y. ("Funktsional'n. analiz i yego primeneniye". Baku, AN Azerb SSR, 1961, 52-56)

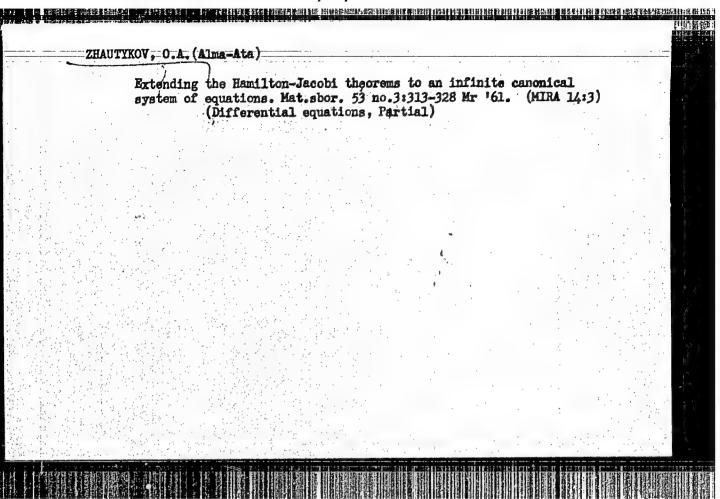
TEXT: The author considers the uniqueness of the solution of the Cauchy problem for the integro-differential equation

$$v(x,t) + \int_{0}^{1} m(\xi)K(x,\xi) \frac{\int_{0}^{2} v(\xi,t)}{\int_{0}^{2} t^{2}} d\xi$$

$$- \omega \int_{0}^{\infty} N_{o}(\xi) \frac{\Im K(x, \xi)}{\Im \xi} \frac{\Im v(\xi, t)}{\Im \xi} d\xi = 0.$$

Abstracter's note : Complete translation.

Card 1/1



20076 S/039/61/053/003/001/003 C111/C222

M.3500 AUTHOR:

Zhautykov, O.A. (Alma-Ata)

TITLE:

On the extension of the theorems of Hamilton-Jacobi to an infinite canonical system of functions

PERIODICAL: Matematicheskiy sbornik, vol.53, no.3, 1961, 313-328
TEXT: The paper treats the extension of the theory of Hamilton-Jacobi to the infinite system

$$\frac{dx_k}{dt} = \frac{\partial H}{\partial y_k}, \qquad (k=1,2,...),$$

$$\frac{dy_k}{dt} = \frac{\partial H}{\partial x_k}$$
(1)

where $H = H(t, x_1, x_2, \dots, y_1, y_2, \dots)$. Let the function $z(x_1, x_2, \dots)$ given in the countable-dimensional region $G: |x_k| \leq R \text{ (k=1,2,...)}$ have continuous uniformly bounded derivatives of first order and let it satisfy

Card 1/10

On the extension of the theorems... $|z(x_1,x_2,...,x_{m-1},x_m^i,x_{m+1}^i,...)-s(x_1,x_2,...,x_{m-1},x_m^i,x_{m+1}^i,...)| \leq \mathcal{E}_m \Delta x,$ where $\Delta x = \sup_{x_1,x_2,...,x_{m+1},x_{m+1}^i,...} |x_{m+1}^i,x_{m+1}^i,...| = \inf_{x_1,x_2,...,x_{m+1},x_m^i,x_{m+1}^i,...} |x_m^i,x_{m+1}^i,...| = \inf_{x_1,x_2,...} |x_m^i,x_m^i,x_{m+1}^i,...| = \inf_{x_1,x_2,...} |x_m^i,x_m^i,x_{m+1}^i,...| = \mathcal{E}_m \Delta x,$ (2) where $\Delta x = \sup_{x_1,x_2,...} |x_m^i,x_{m+1}^i,x_m^i,x_{m+1}^i,...| = \mathcal{E}_m \Delta x,$ (2) where sup $|x_m^i,x_m^i,x_m^i,x_{m+1}^i,...| = \inf_{x_1,x_2,...} |x_m^i,x$

 $\frac{3/039/61/053/003/001/003}{3/039/61/053/003/001/003}$ On the extension of the theorems... C111/C222
Let a system be determined by the countable number of generalized coordinates q_1, q_2, \ldots Let $\dot{q}_1 = \frac{dq_1}{dt}$, $\dot{q}_2 = \frac{dq_2}{dt}$,... be the generalized velocities. Let the series $\sum_{k=1}^{\infty} q_k^2$ converge at least in one point of $\begin{bmatrix} t_1, t_2 \end{bmatrix}$, let the series $\sum_{k=1}^{\infty} q_k^2$ converge uniformly on $\begin{bmatrix} t_1, t_2 \end{bmatrix}$, where $\begin{vmatrix} q_k(t+\Delta t)-q_k(t) \end{vmatrix} \le K\Delta t$, $(k=1,2,\ldots)$, \begin{align*} (6) \\ |\dot{q}_k(t+\Delta t)-\dot{q}_k(t)| \le K\Delta t\$, \\ |k=1,2,\ldots)\$, \end{align*} \]

The principle of the least action asserts: If in the moment $t=t_1$ the system is described by $(q_1^{(1)}, q_2^{(1)}, \ldots)$ and in the moment $t=t_2$ by $(q_1^{(2)}, q_2^{(2)}, \ldots)$ then meanwhile the system moves so that Card 3/10

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8/039/61/053/003/001/003 On the extension of the theorems C111/C222	1
$I(\chi) = \int_{0}^{2} I(t, q_1, q_2,, \dot{q}_1, \dot{q}_2,) dt$ (7)	40
has a minimum (that holds at least for sufficiently small parts of the path of motion). It is assumed that L is continuous, uniformly bounded, two times continuously differentiable and that it satisfies	
$ L(t, q_1, q_2, \ldots, q_{m-1}, q_m, q_{m+1}, \ldots; q_1, q_2, \ldots, q_{m-1}, q_m, q_{m+1}, \ldots) -$ $-L(t, q_1, q_2, \ldots, q_{m-1}, q_m, q_{m+1}, \ldots; q_1, q_2, \ldots, q_{m-1}, q_m, q_{m+1}, \ldots) \leq$	
$\leq \varepsilon_m \Delta q_1$ $\partial L(t, q_1, q_2, \ldots, q_{m-1}, q'_m, q'_{m+1}, \ldots, q_1, q'_2, \ldots, q'_{m-1}, q'_m, q'_{m+1}, \ldots)$	
$= \frac{\partial L(i, q_1, q_2, \ldots, q_{m-1}, q_m, q_{m+1}, \ldots, \dot{q}_1, \dot{q}_2, \ldots, \dot{q}_{m-1}, \dot{q}_m, \dot{q}_{m+1}, \ldots)}{\partial \dot{q}_k}$	
$\leqslant \epsilon_m \Delta q$, (9)	
Card 4/10	

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On the extension of the theorems...

 $\Delta q = \sup \left[\left| q_m' - q_m'' \right|, \left| q_{m+1}' - q_{m+1}'' \right|, \dots, \left| q_m' - q_m'' \right|, \dots \right], \ \mathcal{E}_m \to 0 \text{ for } m \to \infty.$

If the time t is not varied then by forming δ I, as it is usual, there follow the Lagrange equations

$$\frac{\partial L}{\partial q_k} - \frac{d}{dt} \frac{\partial L}{\partial \hat{q}_k} = 0 \quad (k=1,2,...). \tag{13}$$

Let $\sum_{k=1}^{\infty} \left(\frac{\partial L}{\partial d_k}\right)^2 = \sum_{k=1}^{\infty} p_k^2$ converge uniformly on $t_1 \le t \le t_2$, then

$$dH = -\sum_{k=1}^{\infty} \dot{p}_k dq_k + \sum_{k=1}^{\infty} \dot{q}_k dp_k$$
 (15)

where $H(t, p_1, p_2, ...; q_1, q_2, ...) = \sum_{k=1}^{\infty} p_k \dot{q}_k - L(t, q_1, q_2, ...; \dot{q}_1, \dot{q}_2, ...)$ is the

energy of the system. From (15) there follows the canonical system

$$\frac{\mathrm{d}q_{\mathbf{k}}}{\mathrm{d}t} = \frac{\partial H}{\partial p_{\mathbf{k}}}, \qquad \frac{\mathrm{d}p_{\mathbf{k}}}{\mathrm{d}t} = \frac{\partial H}{\partial q_{\mathbf{k}}}, \quad (\mathbf{k}=1,2,\ldots). \tag{16}$$

Card 5/10

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s/039/61/053/003/001/003 C111/C222

On the extension of the theorems... C111/C222

If L does not explicitly contain the time then there exists the energy integral H = const.

Let the function H and its derivatives $\frac{\partial H}{\partial q_k} = F_k$, $\frac{\partial H}{\partial p_k} = \phi_k$ in G:

 $0 \le t \le T$, $|p_g| \le R$, $|q_g| \le R$ satisfy the condition of the kind (9). Let

 $u(t,p_1,p_2,...,q_1,q_2,...) = C$ (18)

be the integral of (16), where C is an arbitrarily constant, and u is a continuously differentiable function defined in G and satisfying the condition of the kind (9), the complete derivative of which with respect to t vanishes after the use of (16). Let (u,H) be the Poisson-bracket; then

 $\frac{du}{dt} = \frac{\partial u}{\partial t} + (u, H).$

Theorem 1: If $\varphi(t,p_1,p_2,\ldots,q_1,q_2,\ldots)$ = a and $\psi(t,p_1,p_2,\ldots,q_1,q_2,\ldots)$ =b are first integrals of (16) then (φ,ψ) = C is an integral of the system too.

Theorem 2: If (7) is considered as a continuously differentiable function Card 6/10

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On the extension of the theorems... C111/C222

of the coordinates and the time which satisfies the "strengthened"
Cauchy-Lipschitz condition (of the kind (9)) then this function

satisfies the patial differential equation

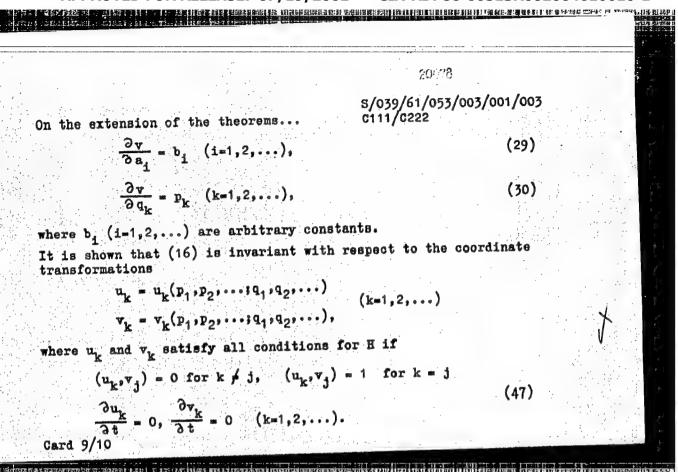
 $\frac{\partial \pi}{\partial t} + \mathbb{H}(t, q_1, q_2, \dots; \frac{\partial \pi}{\partial q_1}, \frac{\partial \pi}{\partial q_2}, \dots) = 0$ (27)

(Hamilton-Jacobi equation of the system). Theorem 3: Let $v(t,q_1,q_2,\ldots,a_1,a_2,\ldots)$ be a continuous uniformly bounded function of t,q_1,q_2,\ldots , defined in the region $E:0\le t\le T$, $|q_k|\le R$ (k=1,2,...). Let it have continuous partial derivatives with respect to the variables t,q_1,q_2,\ldots , as well as with respect to the parameters a_1,a_2,\ldots . Let it together with the derivatives $\frac{\partial v}{\partial a_1}$ (1=1,2,...) in E satisfy the condition

Card 7/10

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$ v(t, q_1, q_2, \ldots, q_{m-1}, q_m, q_{m+1}, \ldots; a_1, a_2, \ldots) - v(t, q_1, q_2, \ldots, q_{m-1}, q_m, q_{m+1}, \ldots; a_1, a_2, \ldots) \leq \varepsilon_m \Delta q,$	
$\frac{\partial v(t, q_1, q_2, \dots, q_{m-1}, q_m, q_{m+1}, \dots; a_1, a_2, \dots)}{\partial a_t}$ $\frac{\partial v(t, q_1, q_2, \dots, q_{m-1}, q_m, q_{m+1}, \dots; a_1, a_2, \dots)}{\partial a_t} \leq \varepsilon_m \Delta q_t$	
where $\Delta q = \sup \left[q_m' - q_m'' , q_{m+1}' - q_{m+1}'' , \cdots \right], \mathcal{E}_m \to 0$ with $m \to \infty$. Besides let the complete differential of v be equal to the expression	\$
$\sum_{k=1}^{\infty} p_k dq_k - H dt.$ Then v satisfies the partial differential equation	
$\frac{\partial \mathbf{v}}{\partial \mathbf{t}} + \mathbf{H}(\mathbf{t}, \mathbf{q}_1, \mathbf{q}_2, \dots, \mathbf{q}_{\frac{\partial \mathbf{v}}{\partial \mathbf{q}_1}}, \frac{\partial \mathbf{v}}{\partial \mathbf{q}_2}, \dots) = 0,$	
and the general integral of the infinite canonical system (16) is defined by Card 8/10	a series de la companya de la compan

CIA-RDP86-00513R002064610010-1" APPROVED FOR RELEASE: 07/19/2001

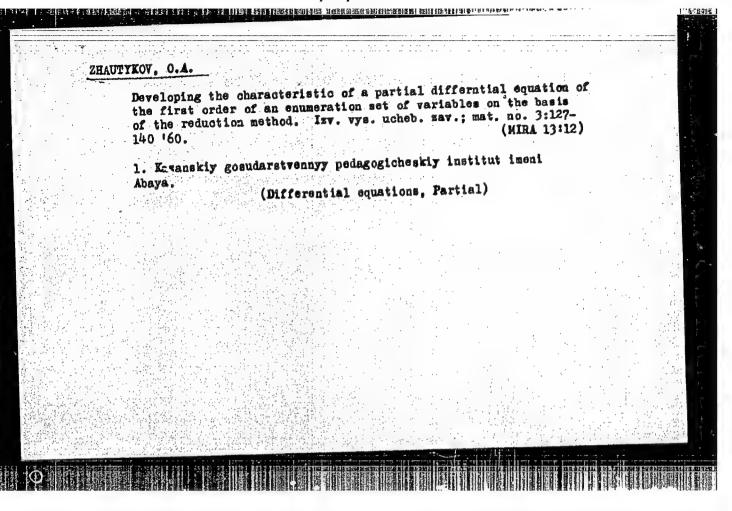


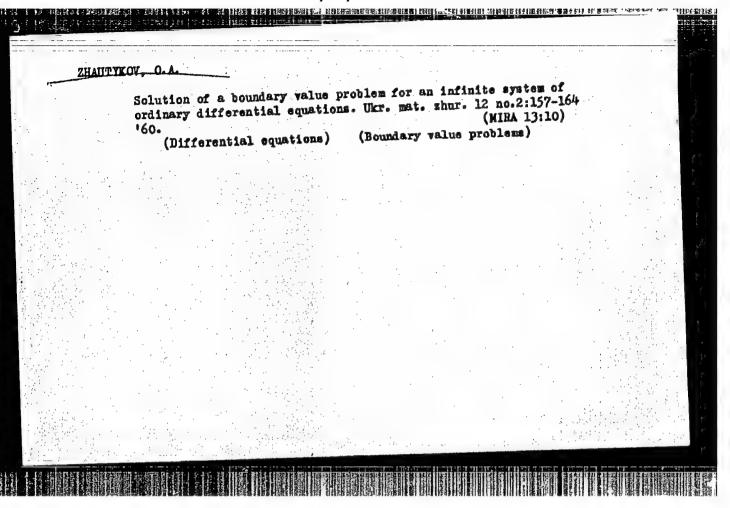
On the extension of the theorems...

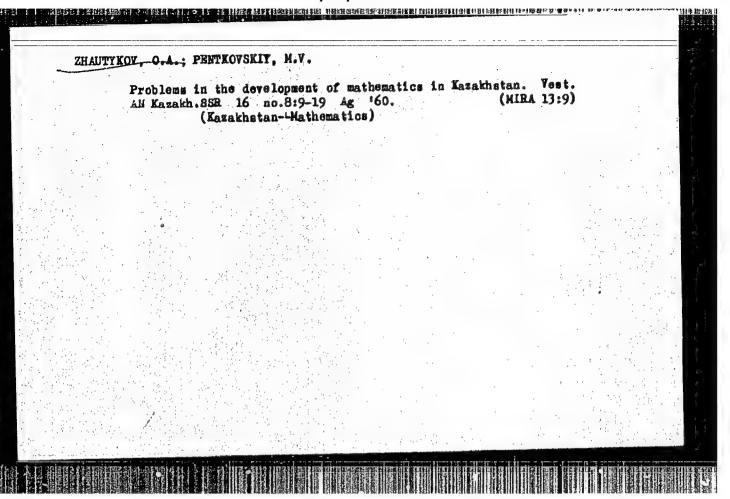
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C111/C222

There are 3 Soviet-bloc references.
SUBMITTED: June 17, 1959

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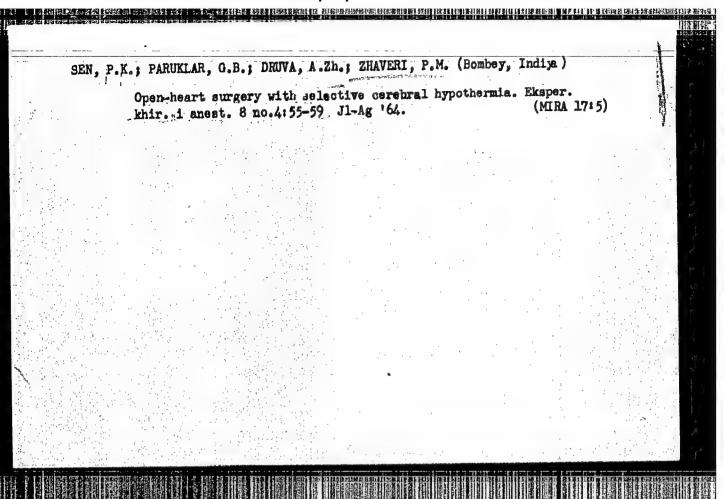




ZHAV. B. V.

"Studies of Structure and Multiplication Cycles of the Rickettsia Prowazeki," Rumyantsev, A.V., Krantovskaya, M.K., Savitskaya, Ye. P. and Zhav, B.V., Dokl. AN SSSR, Nova Ser., 58, No.2, 1947

Report results of studies conducted on the Rickettsia prowazeki. Studies development of this disease: 1) in the light at muscles due to prenasal infection of latter. and 2) in the intestines due to perineal infection. Submitted by Academician I. I. Shmal'gauzen, 20 Mar 1947.



L_32733_66 _ ENT(m)/T _ IJP(c) SOURCE CODE: UR/0203/66/006/002/0411/0412

ACC NR: AP6011714 SOURCE CODE: UR/0203/66/006/002/0411/0412

AUTHOR: Kapustin, L N.; Zhavkov, V. A.

ORG: Polar Geophysical Institute, Kola Branch of AN SSSR (Polyarnyy geofizicheskiy institut, Kol'skiy filial AN SSSR)

TITLE: Use of the SI-5G counters in the pre-Geiger plateau

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 2, 1966, 411-412

TOPIC TAGS: Geiger counter, particle counter, cosmic ray particle, cosmic ray measurement

ABSTRACT: The comparatively long dead time of counters when operating in the Geiger region and the limited service life appreciably lower the qualitative indices of apparatus recording cosmic rays and its reliability. Consequently, the authors measured the dead time and recorded the counting characteristics in the pre-Geiger plateau in order to find out if counters could operate at low voltages. The counting characteristic curves are given for the SI-5G counter obtained upon changing the voltage from 1000 to 1300 V at a sensitivity of the recording electronic circuit from 1·10-8 to 64·10-8 A. The section of the characteristic curve above 1200 V characterizes the work of the counter in the Geiger plateau. The Card 1/2

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section below 1200 V to 20-50 V is apparently unsuitable for operation due to the presence of a pronounced negative slope of the characteristic curve. This negative slope is explained by the dead time of the counter markedly increasing above 1200 V. It is recommended that an operating point be selected approximately 40-50 V below the start of the Geiger plateau. If the operating point is selected to be 1170 V at a sensitivity of the discriminator of 2·10-8 Å, the control discriminator should have a sensitivity of 64·10-8 Å. The data presented in the article gives grounds to assume that the SI-5G counters can be used in the proportional region in large-area meson telescopes where high reliability of the sensors is required. Orig. art. has: 2 figures.

SUB CODE: 18 / SUBM DATE: 16Feb65 / ORIG REF: 003

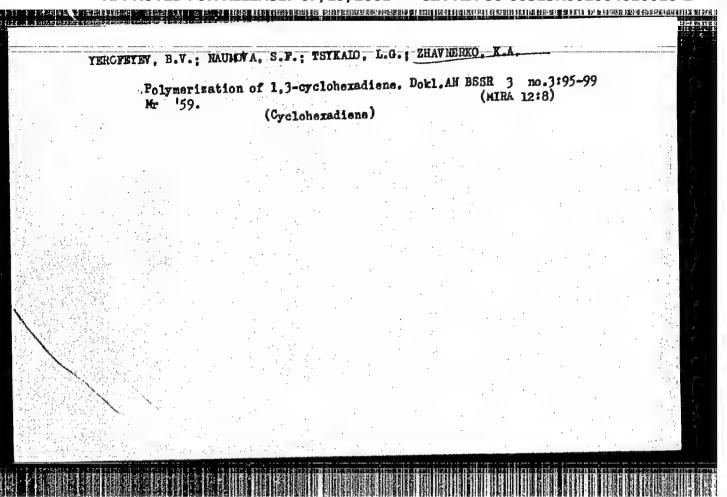
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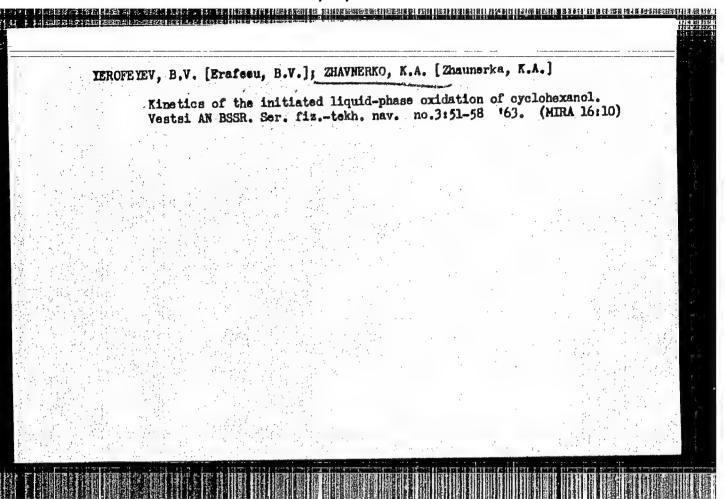
BELOV, V. B., gornyy inzh.; ZHAVLYUCHENKO, A. I., gornyy inzh.;
KHUDYAKOV, M. Ia., gornyy inzh.; SHENDERGEVICH, I. M., gornyy
inzh.; SONKIN, V. D., gornyy inzh.

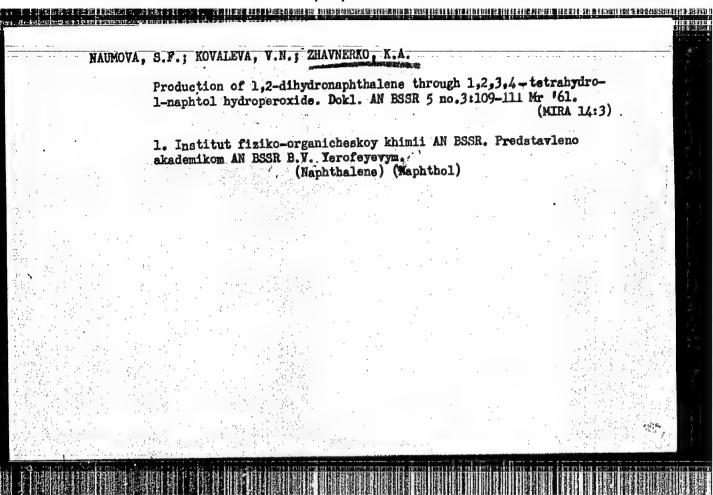
Anchor bolting in hydraulic mines. Ugol¹ Ukr. 6 no.10:31-32
0 '62. (MIRA 15:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut gidrodobychi
uglya.

(Donets Basin-Hydraulic mining)
(Mine roof bolting)







ZHAVORONKIN, A. (Moskva); MALYUKOV, I.; KHODYREVA, Te.

Improve the shoe trade. Sov.torg. no.2:31-34 F '59.
(MIRA 12:2)

1. Direktor magazina No.6 Mosobuv'torga (for Malyukov). 2. Direktor Sverdlovskogo obuv'torga (for Khodyreva).
(Shoe industry) (Retail trade)

S/035/62/000/002/042/052 A001/A101

AUTHORS:

Zhavoronkin, I. A., Pavlovskiy, V. I.

TITLE:

On adjustment of variometric and gravimetric surveys

PERIODICAL:

Referativnyy zhurnal, Astronomiya i Geodeziya, no. 2, 1962, 27, abstract 20164 (V sb. "Razved. i promysl. geofiz.", no. 41, Moscow,

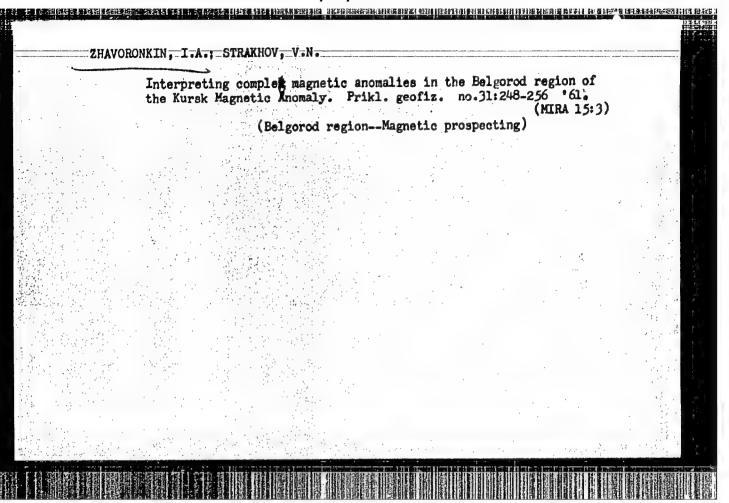
1961, 84 - 93)

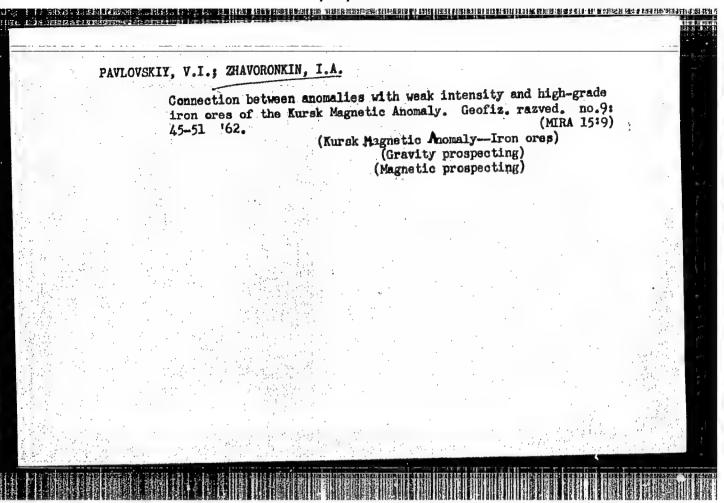
TEXT: On the basis of observational data in the Kursk Magnetic Anomaly region, the authors investigated the problem on the joint utilization and adjustment of measurements performed with variometers and gravimeters under different conditions of topography relief and the character of occurrence of anomalous masses. They provide recommendations for the favorable arrangement of observational stations for variometers and gravimeters. The methods are indicated how to take into account the effect of vertical gravity gradients. There are 7 references.

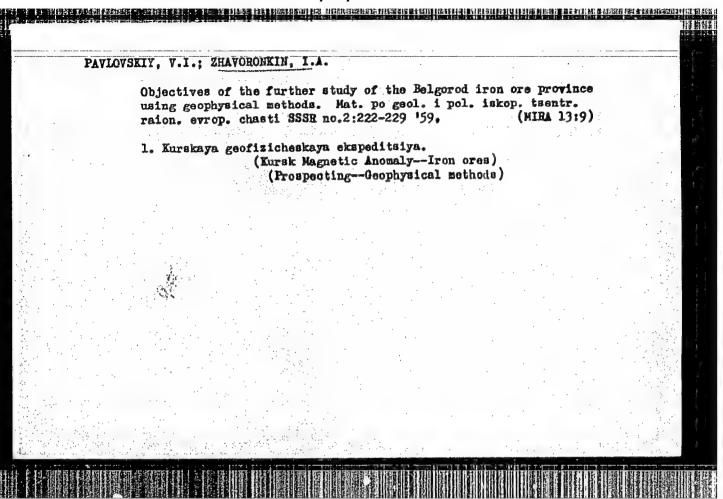
P. Shokin

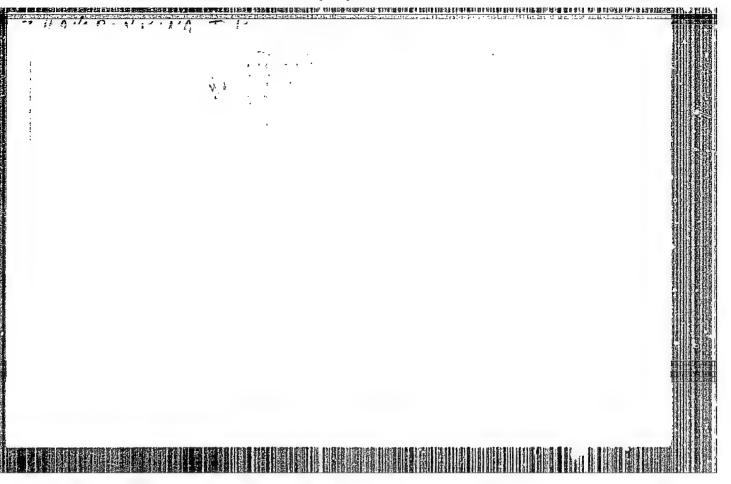
[Abstracter's note: Complete translation]

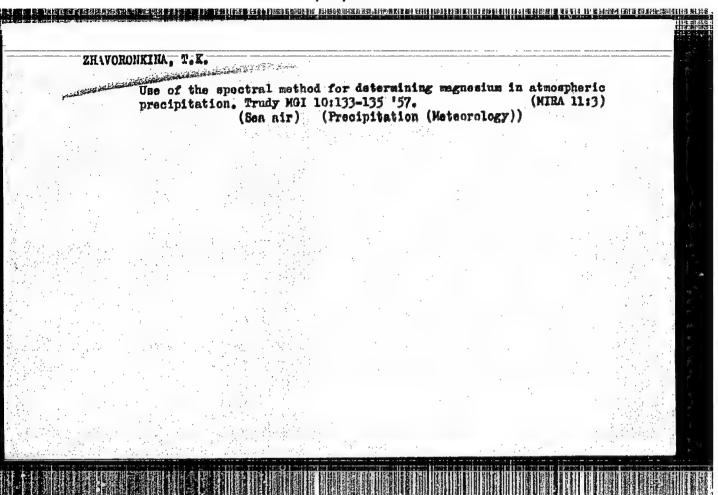
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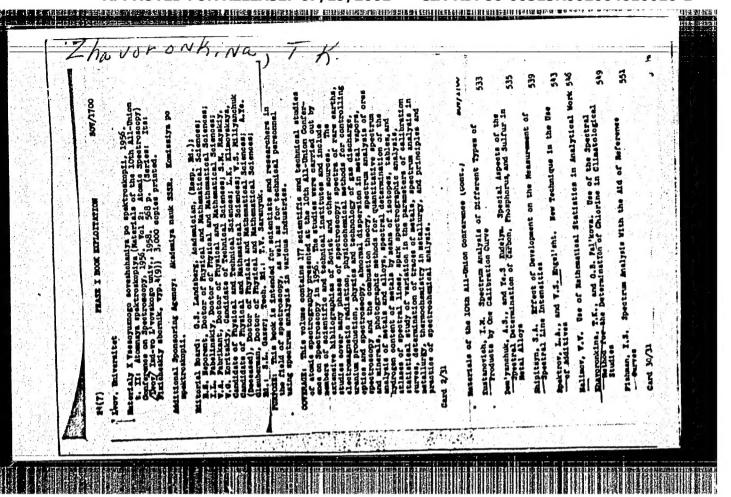












Chavaronkina, 1, h. 49-58-3-4/19

AUTHORS: Zhavoronkina, T. K. and Dmitriyev, A. A.

TITLE: Distribution of the chlorine concentration in atmospheric precipitation above mainlands. (Raspredeleniye kontsentratsii khlora v atmosfernykh osadkakh nad materikom).

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1958, Nr. 3, pp. 330-336 (USSR).

ABSTRACT: The distribution of chlorine in the atmospheric precipitation above mainlands is considered and an attempt is made to derive theoretically the distribution of chlorine by means of analysis of a model of a mainland of rectangular contour of a width H and a length L in the case of a wind in the longitudinal direction, assuming a constant salinity c of the rain masses at the edges. The loss in salinity is proportional to the original salinity multiplied by the relative speed of precipitation. The basic relation is Eq.(1), p.330. The law expressing the distribution of the concentration for the mainland model under consideration is Eq.(19), p.332. For obtaining statistically justified data on the salinity of the precipitation, a mass collection was made of samples which were analysed spectrally by a network of meteorological

Card 1/3 stations distributed along two straight lines.

49-58-3-4/19

Distribution of the chlorine concentration in atmospheric precipitation above mainlands.

west to east, along the middle zonal direction of the wind in the atmosphere; the other along a meridian in the central part of the European part of the Soviet Union enabling observation of the distribution of the salinity from the Barents Sea to the Black Sea. In addition to salinity, the chlorine consentration was investigated. The values of chlorine concentration measured in twelve stations during winter and summer are entered in c table, p.333 and the values of the average dispersion of the individual observations for the respective months and periods are also given. The experimentally determined results are plotted on charts, Figs. 2 and 3, and compare favourably with the theoretically derived results. The assumption was confirmed of the smaller role played by the smaller Black Sea than by the larger northern seas; however, the differences are within the limits of random divergences and, therefore, cannot be considered as sufficiently conclusive. Acknowledgments are made to V. V. Shuleykin for formulating the subject of investigations. There are 4 figures and 1 table.

Card 2/3

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Card 3/3

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